



To register for this course, go to www.giga-wave.com, or call 210-375-0085

Implementing Cisco Unified Wireless Voice Networks v1.0

Keyword: IUWVN

5 Days – List Price \$3,295

Course Description

This course is instructor-led training and includes instructor assisted, hands-on labs. The Implementing Cisco Unified Wireless Voice Networks training class is designed to help you prepare for the CCNP-Wireless certification, a professional level certification specializing in the wireless field. The goal of the IUWVN is to provide network professional with a firm understanding of how to integrate VoWLAN services into the WLAN and be able to implement VoWLAN, QoS, and high-bandwidth applications into the wireless network. The IUWVN training reinforces the instruction by providing you with hand-on labs.

Laptops are provided to participate in the hands-on labs. If you desire to use your own laptop, please bring a laptop computer with an available 32-bit CardBus slot and an Ethernet port as well as an internal wireless NIC, 802.11a/b/g. The laptop's operating systems must be either MS Windows 2000 (SP4) or XP. The laptop should also have a 9-pin serial port or USB to serial adapter. IN ADDITION, you will need administrator rights to the laptop to install drivers for the wireless client used in class.

You Learn...

After completing this course, you should be able to:

- Implement QoS for wireless applications, both on the wired and on the wireless side
- Describe voice architecture and voice over wireless specific requirements
- Design and implement Voice over Wireless LANs
- Implement multicast support over wireless networks
- Prepare the wireless network for video and high-bandwidth applications

Who Would Benefit

The Implementing Cisco Unified Wireless Voice Networks course is targeted to system engineers, network engineers, network administrators, network managers, network designers, and project managers who will be required to integrate VoWLAN services into the WLAN and be able to implement Voice over WLAN (VoWLAN) into the wireless network, and any individual wishing to attain the CCNP-Wireless certification.

Prerequisites

- Interconnecting Cisco Networking Devices Part 1 (ICND1)
- Interconnecting Cisco Networking Devices Part 2 (ICND2)
- Implementing Cisco Unified Wireless Networking Essentials (IUWNE) v1.0

Follow-On Courses

- Conducting Cisco Unified Wireless Site Survey (CUWSS)
- Implementing Advanced Cisco Unified Wireless Security (IAUWS)
- Implementing Cisco Unified Wireless Mobility Services (IUWMS)
- Cisco Advanced Wireless Bridging Lab (CAWBL)

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Course Content

Module 0 - Course Introduction

Module 1 – Implement QoS for Wireless Applications

- Identifying General Considerations for Wired and Wireless QoS
- Describing Wireless QoS Deployment Schemes
- Configuring the Controller and Cisco WCS for QoS
- Configuring the Controller and Cisco WCS for QoS
- Understanding Current Best Practice Guidelines

Module 2 – Voice over Wireless Architecture

- Describing the evolution of Voice Architecture
- Describing VoWLAN Call Flow
- Designing Wireless for Voice
- Verifying Voice Readiness

Module 3 – Implement VoWLAN

- Describing Hardware and Software Requirements for VoIP
- Configuring a WLAN for Voice
- Configuring Infrastructure Devices for End-to-End Voice over Wireless
- Configuring Wireless Client Devices
- Troubleshooting VoWLAN

Module 4 – Implement Multicast over Wireless

- Understanding General Multicast Concepts
- Describing Implications for Multicast in 802.11
- Configuring Multicast in a Wireless Network
- Troubleshooting Multicast in a Wireless Network

Module 5 – Prepare the Wireless Network for Video and High-Bandwidth Applications

- Implementing QoS for Latency-Sensitive Applications
- Determining Bandwidth Requirements and Preparing the Controller for Video
- Describing Benefits of 802.11n for Video